

Notice of Allowability

Application No.

10/612,760

Examiner

David E. Martinez

Applicant(s)

CHEN ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/19/07.
2. ☒ The allowed claim(s) is/are 12-16,23-25,29,32-34,36 and 37.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Walter W. Nielsen (25,539) on 3/22/07 in order to overcome a rejection in view of US Patent Application No. 2004/0097215, and also to further clarify the claims so as to avoid a 112-2nd paragraph rejection.

The application has been amended as follows:

1. In claim 12, line 7, the term "provide second data" has been deleted and it has been replaced with the term --- provide second depunctured data ---.
2. In claim 12, line 8, the term "generator is deleting second repeated data" has been deleted and it has been replaced with the term --- generator is depuncturing second data ---.
3. In claim 12, line 9, the term "second data according to" has been deleted and it has been replaced with the term --- second depunctured data according to ---.
4. Claim 23 has been deleted and has been replaced with:

A system, comprising:

reconfigurable logic to operate in a mode selectable between a repeat transmission mode and a depuncture reception mode,

a transmitter, coupled to the reconfigurable logic, to provide first repeated data by repeating first data when the reconfigurable logic is operating in the repeat transmission mode;

a receiver, coupled to the reconfigurable logic, to provide second depunctured data by depuncturing second data when the reconfigurable logic is operating in the depuncture

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reception mode, wherein the receiver is to provide the second depunctured data according to a first programmed standard included in the reconfigurable logic and selected from a plurality of reprogrammable standards, wherein the first programmed standard is rule-based;

wherein the receiver is to receive a second programmed standard from the plurality of reprogrammable standards, to reprogram the reconfigurable logic to operate in accordance with the second programmed standard, wherein the second programmed standard is table-based; and

a dipole antenna to couple to the receiver.

5. In claim 25, line 7, the term "wherein the first programmed standard is rule-based" has been deleted.

6. In claim 25, line 8, the term "wherein the first programmed standard is table-based" has been deleted.

7. In claim 29, line 2, the term "generator is configurable" has been deleted and it has been replaced with the term --- generator is also configurable ---.

Allowable Subject Matter

Claims 12-16, 23-25, 29, 32-34, 36-37 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

With regards to claim 12, the prior art of record alone or in combination fail to teach or fairly suggest wherein the receiver is to receive a second programmed standard from a plurality of standards to reprogram the rate matcher pattern generator to operate in accordance with the second programmed standard; wherein the first programmed standard is rule-based, and wherein the rate matcher pattern generator is to use the state machine in operating under the first programmed standard; and wherein the second programmed standard is a table-based standard, and wherein the rete matcher pattern generator is to use the look up table while

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operating under the second standard, in combination with the rest of the limitations found in the claim.

With regards to claim 23, the prior art of record alone or in combination fail to teach or fairly suggest wherein the receiver is to provide the second depunctured data according to a first programmed standard included in the reconfigurable logic and selected from a plurality of reprogrammable standards, wherein the first standard; and wherein the receiver is to receive a second programmed standard from the plurality of reprogrammable standards, to reprogram the reconfigurable logic to operate in accordance with the second programmed standard, wherein the second programmed standard is table-based, in combination with the rest of the limitations found in the claim.

The following is a discussion of the most relevant prior art found:

US Patent Application Publication No. 2004/0097215 to Abe et al. teaches a transmitter having a multiple puncturing pattern generator used to provide punctured data, and a receiver having a multiple puncturing pattern generator used in a depuncturing process to depuncture data. The multiple puncturing pattern generator being the same in both the transmitter and receiver and comprising only of a plurality of reference matrices used both in the puncturing and depuncturing operations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Drawings

The drawings were received on 1/19/07. These drawings are acceptable.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Martinez whose telephone number is (571) 272-4152. The examiner can normally be reached on 8:30-5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on 571-272-4201. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DEM


DONALD SPARKS
SUPERVISORY PATENT EXAMINER